

TOSHIBA HIGH EFFICIENCY DIODE STACK (HED) SILICON EPITAXIAL TYPE

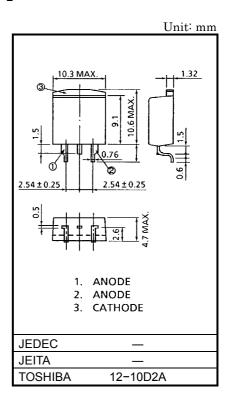
# **U20GL2C48A**

# SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

• Low Switching Losses and Output Noise.

## **MAXIMUM RATINGS (Ta = 25°C)**

| CHARACTERISTIC                   | SYMBOL           | RATING     | UNIT |  |
|----------------------------------|------------------|------------|------|--|
| Repetitive Peak Reverse Voltage  | $V_{RRM}$        | 400        | V    |  |
| Average Output Rectified Current | Io               | 20         | Α    |  |
| Peak One Cycle Surge Forward     | I <sub>FSM</sub> | 100 (50Hz) | Α    |  |
| Current (Sin Wave)               |                  | 110 (60Hz) |      |  |
| Junction Temperature             | Tj               | -40~150    | °C   |  |
| Storage Temperature Range        | T <sub>stg</sub> | -40~150    | °C   |  |



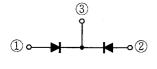
### **ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

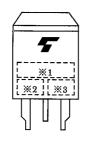
| CHARACTERISTIC                  | SYMBOL                | TEST CONDITION                          | MIN | TYP. | MAX | UNIT |
|---------------------------------|-----------------------|-----------------------------------------|-----|------|-----|------|
| Peak Forward Voltage            | $V_{FM}$              | I <sub>FM</sub> = 10A                   | _   | _    | 1.8 | V    |
| Repetitive Peak Reverse Current | I <sub>RRM</sub>      | V <sub>RRM</sub> = 400V                 | _   | _    | 50  | μΑ   |
| Reverse Recovery Time           | t <sub>rr</sub>       | $I_F = 2A$ , di / dt = $-50A$ / $\mu$ s | _   | _    | 35  | ns   |
| Forward Recovery Time           | t <sub>fr</sub>       | I <sub>F</sub> = 1A                     | _   | _    | 100 | ns   |
| Thermal Resistance              | R <sub>th (j−c)</sub> | DC Total, Junction to Case              | _   | _    | 1.6 | °C/W |

Note:  $V_{FM}$ ,  $I_{RRM}$ ,  $t_{rr}$ ,  $t_{fr}$  ...... A value of one cell.

#### **POLARITY**

#### **MARKING**





| * 1 | MARK                                                                                  | 20GL2C |  |  |
|-----|---------------------------------------------------------------------------------------|--------|--|--|
| * 2 | A                                                                                     |        |  |  |
| * 3 | Lot Number Month (Starting from Alphabet A)   Year (Last Number of the Christian Era) |        |  |  |

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